



**NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY**

**FACULTY OF COMMERC, HUMAN SCIENCES AND EDUCATION**

**DEPARTMENT OF GOVERNANCE & MANAGEMENT SCIENCES**

<b>QUALIFICATION : BACHELOR OF BUSINESS AND INFORMATION ADMINISTRATION</b>	
<b>QUALIFICATION CODE: 07BBIA</b>	<b>LEVEL: 7</b>
<b>COURSE CODE: BIS721S</b>	<b>COURSE NAME: BUSINESS INFORMATION SYSTEMS 3</b>
<b>SESSION: JULY 2025</b>	<b>PAPER: THEORY (PAPER 2)</b>
<b>DURATION: 2 HOURS</b>	<b>MARKS: 100</b>

<b>2<sup>nd</sup> OPPORTUNITY EXAMINATION QUESTION PAPER</b>	
<b>EXAMINER:</b>	<b>Prof. N. ANGULA</b>
<b>MODERATOR:</b>	<b>Mr. Tuliameni Kanyemba</b>

<b>INSTRUCTIONS</b>	
1.	Read all the questions carefully before answering.
2.	Make sure your name and surname, question number and the date appears on the answer script.
3.	Please ensure that your writing is legible, neat and presentable.

**THIS QUESTION PAPER CONSISTS OF 5 PAGES (Including this front page)**

Answer the following multiple-choice questions. Only write down the question number and the correct answer. E.g. 1.1 C

**Section A:** Multiple choice questions

- 1.1 The Internet has fundamentally reshaped the way business and networking are conducted, serving as the cornerstone for modern commerce in the digital age:
- A 31st century
  - B 21st century
  - C 20th century
  - D 30th century
- 1.2 A switch possesses greater intelligence than a hub, as it is capable of filtering and forwarding data to a specific destination based on the intended recipient's address:
- A Network
  - B Network protocol
  - C Wide area network (WAN)
  - D A computer-based information system
- 1.3 The architecture essentially serves as the blueprint for how computers, printers, laptops, and other devices, such as phones and smartphones, are interconnected within a network:
- A Unshielded twisted pair
  - B Shielded twisted pair.
  - C Network
  - D Twisted pair cables
- 1.4 This represents the initial or preliminary investigation conducted to collect relevant information.
- A The third phase
  - B The first phase
  - C The second phase
  - D The fourth phase
- 1.5 Enterprise computing also emerged in the late 20th century.:
- A 1990s
  - B 1991s
  - C 1992s
  - D 1993s
- 1.6 These reports are unscheduled and generated only upon request by management:

- A Demand or ad hoc reports
  - B Exception reports
  - C V-Shape methodology
  - D Push reports
- 1.7 These are used to determine the optimal value for a variable under specified conditions:
- A Sensitivity analysis models
  - B Backward analysis sensitivity models
  - C Optimisation analysis models
  - D Forecasting models
- 1.8 These decisions are typically made by middle management at the tactical level:
- A Semi-structured decisions
  - B Interviews
  - C Unstructured decisions
  - D Questionnaires
- 1.9 This system delivers essential information from a diverse range of internal and external sources through user-friendly displays for executives and managers:
- A Executive Information Systems (EIS)
  - B Strategic Information Systems
  - C Transaction Processing Systems (TPS)
  - D Management information Systems
- 1.10 It is an expert system developed to support decision-making in situations where traditional methods are insufficient:
- A Business analytics (BA)
  - B Knowledge driven DSS
  - C Decision Support Systems (DSS)
  - D Executive Information Systems (EIS)

**[10 marks]**

**Section B: Structured questions****[90 Marks]****Answer each of the following questions:****Questions 1**

Imagine you are tasked with designing a network infrastructure for an organization. What are the five types of network topologies you would consider, and how would each topology impact the organization's efficiency, scalability, and reliability? Discuss the advantages and disadvantages of each topology in the context of the organization's specific needs. **[10]**

**Question 2**

Imagine your company is looking to implement business intelligence tools to enhance decision-making processes. How would you explain the concept of "business intelligence" and the types of information it generates within an organization using business analytical tools? Discuss five key points, providing examples of how this information supports strategic and operational decisions.

**[10]****Question 3**

Assume you are managing a software development project and need to decide whether to implement the Verification and Validation (V&V) methodology. What are five reasons why adopting this methodology would be beneficial for ensuring the quality and reliability of the project? Discuss each reason in the context of risk management, efficiency, and project success.

**[10]****Question 4**

Imagine you've been chosen by your employer to manage a system development project. Why is it essential to consider the System Development Life Cycle (SDLC) when developing a system? Discuss five key reasons why the SDLC is critical to the success of the project, and explain how each phase contributes to the overall development, ensuring efficiency, quality, and alignment with organizational goals.

**[10]****Question 5**

Imagine your organization is evaluating how information systems support operations at different organizational levels. Using real-world cases, what characteristics of information systems are most evident at the operational level of an organization? Discuss five specific examples that demonstrate how information systems contribute to daily operations, enhancing efficiency and decision-making at this level. [10]

#### **Question 6**

Imagine your organization is looking to understand the critical role of information systems in its operations. Using five distinct scenarios, describe the importance of information systems in modern organizations. Discuss how each scenario highlights a different aspect of how information systems contribute to decision-making, efficiency, innovation, and overall organizational success. [10]

#### **Question 7**

Imagine your organization is considering implementing a Decision Support System (DSS) to improve decision-making processes. Identify and elaborate on five key components of a DSS. Discuss how each component contributes to the system's overall effectiveness in supporting data-driven decisions within your organization. [10]

#### **Question 8**

Imagine you are a manager tasked with leading a decision-making process in your organization. Outline and explain the five key stages of the decision-making process. Discuss how each stage contributes to making informed, effective decisions and the potential impact on organizational outcomes. [10]

#### **Question 9**

Assume you are a network engineer at Telecom Namibia tasked with setting up the network for a new Telecom lab. Identify five essential network components you would need for this setup. Discuss each component in detail, explaining its role and how it contributes to the overall functionality and performance of the network. [10]

**[Section B Total Marks: 90]**

**End of examination**

<b>TOTAL: 100</b>
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